

**Form PTO-1449 Modified**List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)U.S. Department of Commerce
Patent and Trademark OfficeDocket No.
ISIS-5325Application No.
10/701,007Applicant
Charles Allerson, et al.Filing Date
November 4, 2003Group
~~1645~~ 1635Confirmation No.
5641**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
* 83	144	5,223,618	06/29/93	Cook, et al.	544	276

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER

DATE CONSIDERED

4/28/06

* Listed on PCT Written Opinion dated June 10, 2005 (PCT/US03/35137).

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Patent and Trademark Office

Docket No.
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Applicant
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
JZ	140	5,780,607	07/14/98	Goodnow, Jr. et al.	536	22.1
	141	6,046,306	04/04/00	Breipohl, et al.	530	322
	142	6,395,474 B1	05/28/02	Buchardt, et al.	435	6

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
JZ	143	WO 86/05518 A1	09/25/86	PCT		

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JZ

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-5325		Application No. 10/701,007		
	Applicant Charles Allerson, et al.				
	Filing Date November 4, 2003		Group 1645 1635		
	Confirmation No. 5641				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
83	136	Hunziker, J., et al., "Nucleic acid analogues: synthesis and properties," <i>Modern Synthetic Methods</i> , 1995, 331, 334-417			
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		DATE CONSIDERED		4/28/06	

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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
JL	137	5,808,036	09/15/98	Kool	536	24.3
	138	2002/0132788 A1	09/19/02	Lewis, et al.	514	44

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
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JL	139	WO 94/01550	01/20/94	PCT		

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Examiner Initial		Document No.	Date	Name	Class	Subclass
* J3	135	2002/0081736 A1	06/27/02	Conroy, et al.	435	455

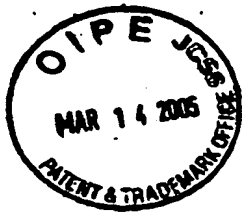
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					YES	NO

EXAMINER**DATE CONSIDERED**

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* Cited on the PCT Written Opinion dated March 7, 2005 (PCT/US03/35146).



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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
* 83	131	Rajwanshi, V.K., et al., "LNA stereoisomers: <i>xylo</i> -LNA (β -D- <i>xylo</i> configured locked nucleic acid) and α -L-ribo configured locked nucleic acid)," <i>Chem. Commun.</i> , 1999, 1395-1396
* 1	132	Steffens, R., et al., "Synthesis and thermodynamic and biophysical properties of tricycle-DNA," <i>Am. Chem. Soc.</i> , 1999, 121(14), 3249-3255
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* Cited on PCT Written Opinion dated January 28, 2005 (PCT/US03/35072); PCT International Search Report dated February 16, 2005 (PCT/US03/35141); PCT International Search Report dated February 18, 2005 (PCT/US03/35064).

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Examiner Initial		Document No.	Date	Name	Class	Subclass
* <i>JD</i>	133	6,436,640 B1	08/20/02	Simmons, et al.	435	6
* <i>JD</i>	134	2002/0068708 A1	06/06/02	Wengel, et al.	514	44

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					YES	NO

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
**	117	Bass, B.L., "Double-stranded RNA as a template for gene silencing," <i>Cell</i> , 2000, 101, 235-238
****	118	Elbashir, S.M., et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs," <i>Genes & Development</i> , 2001, 15, 188-200
**	119	Lipardi, C., et al., "RNAi as random degradative PCR: siRNA primers convert mRNA into dsRNAs that are degraded to generate new siRNAs," <i>Cell</i> , 2001, 107, 297-307
****	120	Paddison, P.J., et al., "Stable suppression of gene expression by RNAi in mammalian cells," <i>PNAS</i> , 2002, 99(3), 1443-1448
****	121	Wang, J., et al., "Cyclohexene nucleic acids (CeNA): serum stable oligonucleotides that activate RNase H and increase duplex stability with complementary RNA," <i>J. Am. Chem. Soc.</i> , 2000, 122, 8595-8602
EXAMINER	DATE CONSIDERED 4/28/06	

* Cited on PCT International Search Report dated January 6, 2005 (PCT/US03/35071).

** Cited on PCT International Search Report dated January 10, 2005 (PCT/US03/35067).

*** Cited on PCT International Search Report dated January 4, 2005 (PCT/US03/35146).

**** Cited on PCT International Search Report dated January 7, 2005 (PCT/US03/35061).

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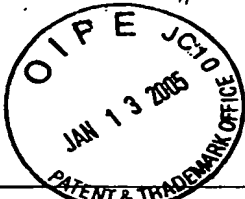
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Examiner Initial		Document No.	Date	Name	Class	Subclass
****	122	5,607,922	03/04/97	De Clercq, et al.	514	43
****	123	5,681,940	10/28/97	Wang, et al.	536	22.1
***	124	6,150,510	11/21/00	Seela, et al.	536	22.1
***	125	6,294,522 B1	09/25/01	Zablocki, et al.	541	46
****	126	6,329,346 B1	12/11/01	Muhlegger, et al.	514	44
***	127	2002/0160393 A1	10/31/02	Symonds, et al.	435	6
*	128	2003/0143732 A1	07/31/03	Fosnaugh, et al.	435	325
*	129	2003/0206887 A1	11/06/03	Morrissey, et al.	424	93.2

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Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
**	130	WO 03/072705 A2	09/04/03	PCT		
EXAMINER				DATE CONSIDERED		

- * Cited on PCT International Search Report dated January 6, 2005 (PCT/US03/35071).
- ** Cited on PCT International Search Report dated January 10, 2005 (PCT/US03/35067).
- ***Cited on PCT International Search Report dated January 4, 2005 (PCT/US03/35146).
- ****Cited on PCT International Search Report dated January 7, 2005 (PCT/US03/35061).



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Examiner Initial		Document No.	Date	Name	Class	Subclass
* 83	113	5,760,209	06/02/98	Cheruvallath, et al.	536	25.34
* 83	114	5,955,443	09/21/99	Bennett, et al.	514	44
* 83	115	2004/0018999 A1	01/29/04	Beach, et al.	514	44

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Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
* 83	116	WO 02/44321 A2	06/06/02	PCT		

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* Cited on the PCT International Search Report dated January 4, 2005 (PCT/US03/34906).



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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
93	98	Copy of the PCT International Search Report dated April 13, 2004 (PCT/US03/35072)	
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Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>83</i>	99	5,854,410	12/29/98	Arnold, Jr., et al.	536	23.1
	100	6,380,169 B1	04/20/02	Adams, et al.	514	44

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
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EXAMINER <i>83</i>	DATE CONSIDERED <i>4/28/06</i>
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
23	101	Copy of the PCT International Search Report dated August 2, 2004 (PCT/US03/35068)	
	102	Zhou, Y., et al., "Post-transcriptional suppression of gene expression in xenopus embryos by small interfering RNA," <i>Nucleic Acids Res.</i> , 2002, 30(7), 1664-1669	
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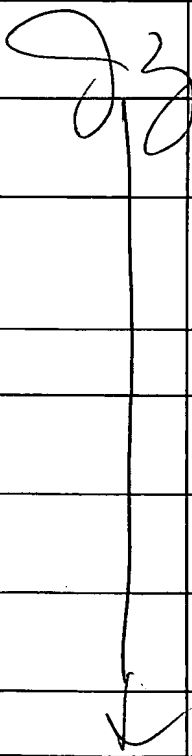
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JZ	103	WO 94/23026 A1	10/13/94	PCT	X abstract	

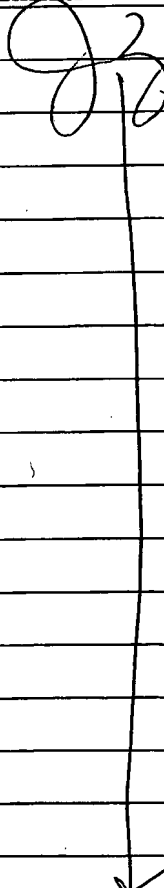
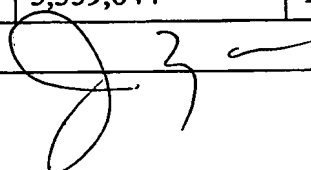
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	Confirmation No. Not Yet Assigned		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	3	Altmann, K.-H., et al., "Second-generation antisense oligonucleotides: structure-activity relationships and the design of improved signal-transduction inhibitors," <i>Biochem. Soc. Trans.</i> , 1996, 24, 630-637	
	4	Altmann, K.-H., et al., "Second generation of antisense oligonucleotides: from nuclease resistance to biological efficacy in animals," <i>Chimia</i> , April 1996, 50(4), 168-176	
	5	Altmann, K.-H., et al., "Second generation antisense oligonucleotides-inhibition of Pkc-1 and c-RAF kinase expression by chimeric oligonucleotides incorporating 6-substituted carbocyclic nucleosides and 2'-O-ethylene glycol substituted ribonucleosides," <i>Nucleosides & Nucleotides</i> , 1997, 16(7-9), 917-926	
	6	Amarzguoui, M., et al., "Tolerance for mutations and chemical modifications in a siRNA," <i>Nucleic Acids Research</i> , 2003, 31(2), 589-595	
	7	Baker, B.F., et al., "2'-O-(2-methoxy)ethyl-modified anti-intercellular adhesion molecule 1 (ICAM-1) oligonucleotides selectively increase the ICAM-1 mRNA level and inhibit formation of the ICAM-1 translation initiation complex in human umbilical vein endothelial cells," <i>J. Biol. Chem.</i> , 1997, 11944-12000	
	8	Boutla, A., et al., "Short 5'-phosphorylated double-stranded RNAs induce RNA interference in <i>Drosophila</i> ," <i>Curr. Biol.</i> , 2001, 11, 1776-1780	
	9	Braasch, D.A., et al., "RNA interference in mammalian cells by chemically-modified RNA," <i>Biochemistry</i> , 2003, 42, 7967-7975	
	10	Brantl, S., "Antisense-RNA regulation and RNA interference," <i>Biochimica et Biophysica Acta</i> , 2002, 1575, 15-25	
	11	Czauderna, F., et al., "Structural variations and stabilizing modifications of synthetic siRNAs in mammalian cells," <i>Nucleic Acids Research</i> , 2003, 31(11), 2705-2716	
	12	Elbashir, S.M., et al., "Functional anatomy of siRNAs for mediating efficient RNAi in <i>Drosophila melanogaster</i> embryo lysate," <i>EMBO J.</i> , 2001, 29(23), 6877-6888	
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		Filing Date November 4, 2003	Group Not Yet Assigned 1638
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	13	Fraser, A., et al., "Synthesis and conformational properties of 2'-deoxy-2'-methylthiopyrimidine and -purine nucleosides: potential antisense applications," <i>J. Heterocycl. Chem.</i> , 1993 , <i>30</i> , 1277-1287	
	14	Holen, T., et al., "Similar behaviour of single-strand and double-strand siRNAs suggests they act through a common RNAi pathway," <i>Nucleic Acids Res.</i> , 2003 , <i>31</i> (9), 2401-2407	
	15	Martin, "38. Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helv. Chim. Acta.</i> , (New access of 2'-O-alkylated ribonucleosides and properties of 2'-O-alkylated oligoribonucleotides) 1995 , <i>78</i> , 486-504	
	16	Martinez, J., et al., "Single-stranded antisense siRNAs guide target RNA cleavage in RNAi," <i>Cell</i> , September 6, 2002 , <i>110</i> , 563-574	
	17	Mellitzer, G., et al., "Spatial and temporal 'knock down' of gene expression by electroporation of double-stranded RNA and morpholinos into early postimplantation mouse embryos," <i>Mechanisms of Development</i> , 2002 , <i>118</i> , 57-63	
	18	Parrish, S., et al., "Functional anatomy of a dsRNA trigger: differential requirement for the two trigger strands in RNA interference," <i>Molecular Cell</i> , November 2000 , <i>6</i> , 1077-1087	
	19	Schwarz, D.S., et al., "Evidence that siRNAs function as guides, not primers, in the <i>Drosophila</i> and human RNAi pathways," <i>Molecular Cell</i> , September 2002 , <i>10</i> , 537-548	
	20	Chiu, Y.-L., et al., "siRNA function in RNAi: a chemical modification analysis," <i>RNA</i> , 2003 , <i>9</i> , 1034-1048	
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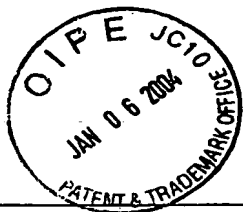
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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
	21	3,687,808	08/14/69	Merigan, Jr., et al.			
	22	4,981,957	01/01/91	Lebleu, et al.	536	27	
	23	5,013,830	05/07/91	Ohtsuka, et al.	536	27	
	24	5,034,506	07/23/91	Summerton, et al.	528	391	
	25	5,118,800	06/02/92	Smith, et al.	536	23	
	26	5,149,797	09/22/92	Pederson, et al.	536	27	
	27	5,166,315	11/24/92	Summerton, et al.	528	406	
	28	5,185,444	02/09/93	Summerton, et al.	544	81	
	29	5,214,134	05/25/93	Weis, et al.	536	25.3	
	30	5,216,141	06/01/93	Benner	536	27.13	
	31	5,220,007	06/15/93	Pederson, et al.	536	23.1	
	32	5,235,033	08/10/93	Summerton, et al.	528	391	
	33	5,256,775	10/26/93	Froehler	536	25.6	
	34	5,264,562	11/23/93	Matteucci	536	23.1	
	35	5,264,564	11/23/93	Matteucci	536	23.1	
	36	5,319,080	06/07/94	Leumann	536	27.1	
	37	5,359,044	10/25/94	Cook, et al.	536	23.1	
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<i>JZ</i>	38	5,366,878	11/22/94	Pederson, et al.	435	91.3
	39	5,393,878	02/28/95	Leumann	536	28.2
	40	5,403,711	04/04/95	Walder, et al.	435	6
	41	5,405,938	04/11/95	Summerton, et al.	528	406
	42	5,434,257	07/18/95	Matteucci, et al.	536	24.3
	43	5,446,137	08/29/95	Maag, et al.	536	23.1
	44	5,466,677	11/14/95	Baxter, et al.	514	44
	45	5,466,786	11/14/95	Buhr, et al.	536	26.26
	46	5,470,967	11/28/95	Huie, et al.	536	24.3
	47	5,489,677	02/06/96	Sanghvi, et al.	536	22.1
	48	5,491,133	02/13/96	Walder, et al.	514	44
	49	5,514,785	05/07/96	Van Ness, et al.	536	22.1
	50	5,519,134	05/21/96	Acevedo, et al.	544	243
	51	5,541,307	07/30/96	Cook, et al.	536	23.1
	52	5,561,225	10/01/96	Maddry, et al.	536	23.1
53	5,565,350	10/15/96	Kmiec	435	172.3	
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<i>J3</i>	54	5,567,811	10/22/96	Misiura, et al.	536	25.34	
	55	5,576,427	11/19/96	Cook, et al.	536	23.1	
	56	5,591,722	01/07/97	Montgomery, et al.	514	45	
	57	5,596,086	01/21/97	Matteucci, et al.	536	22.1	
	58	5,597,909	01/28/97	Urdea, et al.	536	24.3	
	59	5,602,240	02/11/97	De Mesmaeker, et al.	536	22.1	
	60	5,608,046	03/04/97	Cook, et al.	536	23.1	
	61	5,610,289	03/11/97	Cook, et al.	536	25.34	
	62	5,610,300	03/11/97	Altmann, et al.	544	229	
	63	5,618,704	04/08/97	Sanghvi, et al.	435	91.5	
	64	5,623,065	04/22/97	Cook, et al.	536	23.1	
	65	5,623,070	04/22/97	Cook, et al.	536	27.6	
	66	5,627,053	05/06/97	Usman, et al.	435	91.1	
	67	5,633,312	05/27/97	Kabeta, et al.	528	14	
	68	5,633,360	05/27/97	Bischofberger, et al.	536	22.1	
	69	5,639,873	06/17/97	Barascut, et al.	536	25.3	
	70	5,646,265	07/08/97	McGee	536	25.34	
EXAMINER <i>J3</i>				DATE CONSIDERED <i>4/28/06</i>			

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. ISIS-5325		Application No. 10/701,007	
				Applicant Charles Allerson, et al.			
				Filing Date November 4, 2003		Group Not Yet Assigned 1635	
				Confirmation No. Not Yet Assigned			
U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
	71	5,646,269	07/08/97	Matteucci, et al.	536	26.7	
	72	5,652,355	07/29/97	Metelev, et al.	536	24.5	
	73	5,652,356	07/29/97	Agrawal	536	245	
	74	5,658,873	08/19/97	Bertsch-Frank, et al.	510	375	
	75	5,663,312	09/02/97	Chaturvedula	536	22.1	
	76	5,670,633	09/23/97	Cook, et al.	536	23.1	
	77	5,677,437	10/14/97	Teng, et al.	536	23.1	
	78	5,677,439	10/14/97	Weis, et al.	536	23.1	
	79	5,700,920	12/23/97	Altmann, et al.	536	221	
	80	5,700,922	12/23/97	Cook	536	23.1	
	81	5,792,608	08/11/98	Swaminathan, et al.	435	6	
	82	5,792,747	08/11/98	Schally, et al.	514	12	
	83	5,898,031	04/27/99	Crooke	435	172.3	
	84	6,107,094	08/22/00	Crooke	435	455	
	85	6,172,209 B1	01/09/01	Manoharan, et al.	536	23.1	
	86	6,271,358 B1	08/07/01	Manoharan, et al.	536	23.1	
EXAMINER				DATE CONSIDERED 4/22/06			

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. ISIS-5325		Application No. 10/701,007	
				Applicant Charles Allerson, et al.			
				Filing Date November 4, 2003		Group Not Yet Assigned 1638	
				Confirmation No. Not Yet Assigned			
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation		
					YES	NO	
 <i>J. J.</i> <i>ONLY</i>	87	WO 89/12060	12/14/89	PCT			
	88	WO 99/32619	07/01/99	PCT			
	89	WO 00/08044	02/17/00	PCT			
	90	WO 00/44895	08/03/00	PCT	X abstract		
	91	WO 00/44914	08/03/00	PCT			
	92	WO 00/49035	08/24/00	PCT			
	93	WO 00/63364	10/26/00	PCT			
	94	WO 01/29058	04/26/01	PCT			
	95	WO 01/36641 A2	05/25/01	PCT			
	96	WO 01/36646 A2	05/25/01	PCT			
	97	WO 01/075164 A3	10/11/01	PCT			
EXAMINER <i>J. J. 3</i>				DATE CONSIDERED <i>4/28/06</i>			



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-5325	Application No. 10/701,007
	Applicant Charles Allerson, et al.	
	Filing Date November 4, 2003	Group Not Yet Assigned 1635
	Confirmation No. Not Yet Assigned	

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
JZ	2	WO 99/14226	03/25/99	PCT		
EXAMINER JZ				DATE CONSIDERED 4/28/06		